ADVANCED STEERING AND SUSPENSION SYSTEMS DAMAGE ANALYSIS

DAM15

Advanced steering and suspension systems are increasingly popular in today's modern vehicles and many of us depend on them to keep our vehicles driving smoothly. If not repaired properly, other vehicle systems can be compromised, resulting in more damage. Every individual involved in the repair process is a stakeholder, so knowing what to look for pre-repair, how to execute the repair and what to check post-repair impacts everyone involved from the estimator, to the business, to the consumer. This interactive course provides important information on the considerations for inspecting steering and suspension systems and provides knowledge that can lead to increased efficiency gains and a positive customer experience both of which are critical to business performance.

Course Content

Module 1— Electronically Controlled Systems

The course opens with an overview of electronically controlled steering and suspension systems, then identifies parts and considerations for damage analysis. As the student begins to learn about repair considerations, the student will have the opportunity to participate in an interactive problem-solving scenario with the class.

Module 2— Electronically Controlled Steering

As the student moves through the course, they will gain information on electronically controlled steering systems such as hydraulic variable assist steering, electro-hydraulic power steering, electric assist power steering and electric steering. Common damage analysis considerations for each of these systems will also be covered.

Module 3— Electronically Controlled Suspension

During the third module, the student will engage in a "damage discovery" activity as they simulate the estimating process. The course closes with information on types of electronic suspensions and damage analysis considerations. Topics covered include air shock absorber height control systems, air spring height control systems, hydraulic height control systems, computer controlled dampers, computer controlled stabiliser bars and tyre pressure monitors.

Recommendations

This course covers damage analysis and related collision repair topics common on many of today's vehicles. It is recommended that students have an understanding of vehicle construction and damage analysis procedures. Other courses that may be helpful include:

- Steering and Suspension Damage Analysis (DAM06)

Registration

To register for Advanced Steering and Suspension Systems Damage Analysis (DAM15) click here or visit www.i-car.com.au

Course Highlights

Points: 1

Estimated Duration: 4 Hours

Format: Classroom & Virtual Classroom

Meets the I-CAR training requirements for the following roles:

ESTIMATOR

ASSESSOR

After completing this course, you will be able to:

- Understand electronically controlled steering and suspension systems and damage analysis considerations
- Identify parts of computer controlled steering and suspension systems
- Understand electronically controlled steering system operation and electronically controlled suspension system operation
- Identify tyre pressure monitor systems and parts